

**TOWARDS**

**DARK MATTER**

**DISCOVERY**

**WORKSHOP**  
**APRIL 11-13, 2018**  
**CHICAGO**

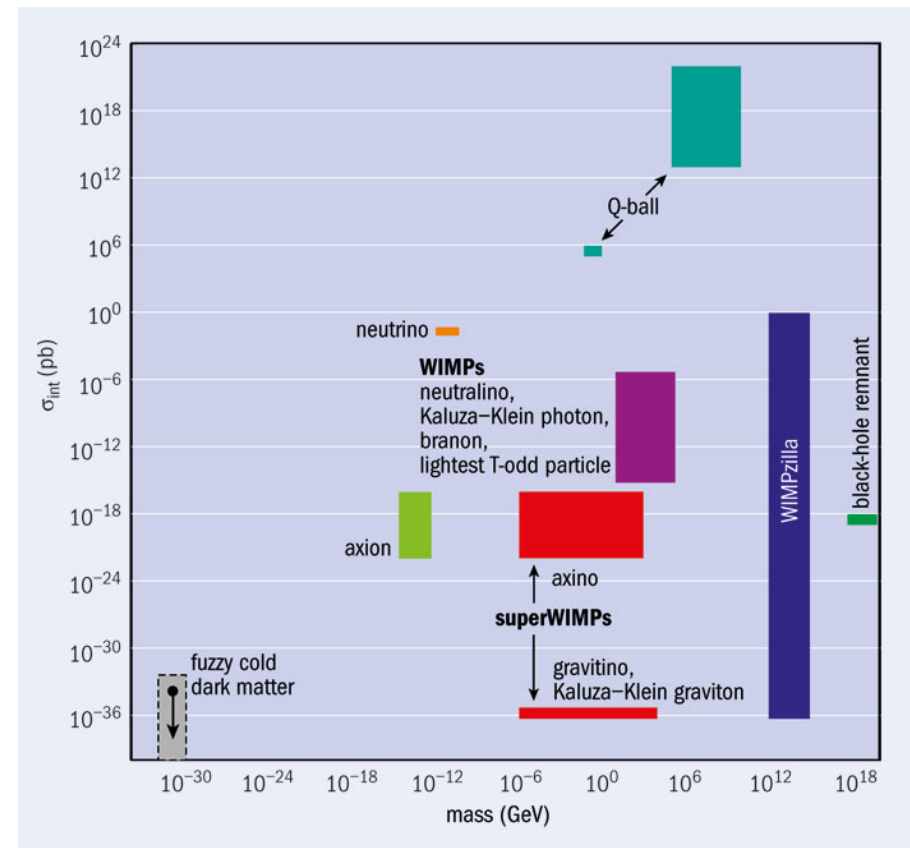
**WELCOME to KICP!**

# Overview & Goals

The KICP Towards Dark Matter Discovery meeting will bring together researchers with a **common interest** in dark matter, particle physics, astroparticle, and cosmology.

The workshop will explore **new directions** on the path toward discovering the nature of dark matter.

We hope that the meeting leads to engaging **exchange of ideas**.



# Agenda

## APRIL 11, 2018 - WEDNESDAY

<b>8:30 AM - 8:55 AM</b>	Coffee / Registration
<b>8:55 AM - 9:00 AM</b>	Welcome
	<b>Morning Session</b> <b>Chair: Andrew Long</b>
<b>9:00 AM - 9:40 AM</b>	<b>Xiaoping Wang</b> , Argonne National Laboratory <i>Fuzzy Dark Matter and Non-Standard Neutrino Interactions</i>
<b>9:40 AM - 10:20 AM</b>	<b>Prateek Agrawal</b> , Harvard University <i>Extending the QCD axion</i>
<b>10:20 AM - 11:00 AM</b>	Coffee Break
<b>11:00 AM - 11:40 AM</b>	<b>Jiji Fan</b> , Brown University <i>Ultralight scalar dark matter with repulsive self-interaction</i>
<b>11:40 AM - 12:20 PM</b>	<b>Yonatan Kahn</b> , Princeton University <i>Searching for keV freeze-in dark matter with Dirac materials</i>
<b>12:20 PM - 2:00 PM</b>	Lunch
	<b>Afternoon Session</b> <b>Chair: Dan Hooper</b>
<b>2:00 PM - 2:40 PM</b>	<b>Ilias Cholis</b> , John Hopkins University <i>Dark Matter Searches in Gravitational Waves</i>
<b>2:40 PM - 3:20 PM</b>	<b>Tim Linden</b> , Ohio State University <i>Astrophysical Signatures of Dark Matter Accumulation in Neutron Stars</i>
<b>3:20 PM - 4:00 PM</b>	Coffee Break
<b>4:00 PM - 6:00 PM</b>	Free Time / Chalk Talks (Nirmal Raj -- Sebastian Baum)
<b>6:00 PM - 8:00 PM</b>	Reception @ Seven Ten Lanes <i>1055 E 55th St, Chicago, IL 60637</i>

see: <http://kicp-workshops.uchicago.edu/2018-dm/index.php>

# Late afternoon chalk talks

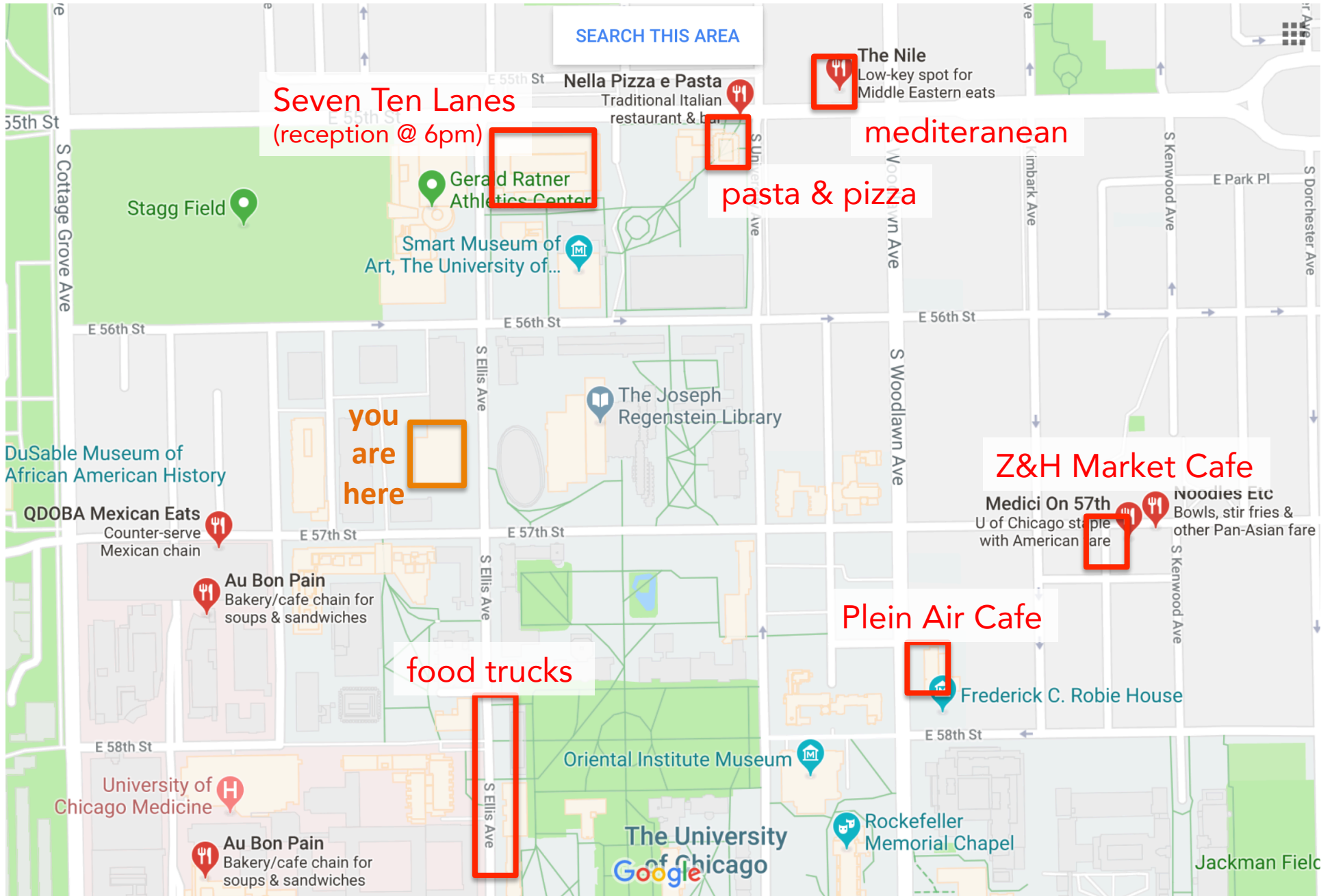
- 4-6 pm on Wed & Thurs
- next door in Enrico Fermi Institute – 3<sup>rd</sup> floor



# Coffee / Lunch / Reception

- Coffee & cookies will be provided at breaks.
- Lunch is on your own for Wed & Thurs. (see next slide)
- Boxed lunches will be provided on Friday.
- Reception at Seven Ten Lanes.
  - bowling alley and pub food
  - 1055 E 55<sup>th</sup> Street, Chicago IL, 60637
  - 2 blocks walk from KICP building
  - 6:00 pm on Wednesday April 11 (tonight!)

# Lunch Options



## Misc.

- restrooms in far corner of the 4<sup>th</sup> floor.
- eduroam wifi connection available.
- administrative assistant: Aimee Giles
- office space available in EFI
- quiet space in 5<sup>th</sup> floor lounge (directly above this room)